SKY-6400

4U Rackmount Intel® Xeon® Scalable GPU Server, Supporting 4 x PCIe x16 Double-Deck Cards Plus 1 x PCIe x8 and 1 x PCIe x4 Single-Deck Cards

Features

- Processor: Dual 2nd Gen Intel® Xeon® scalable processors
- Memory: 12 x DDR4 2666 MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 2TB
- Remote Management: IPMI function support
- Expansion: Supporting 4 x PCIe x16 double-deck card + 1 x PCIe x8 single-deck FH/HL card + 1 x PCIe x4 card
- PSU: 2000W 1+1 redundant power supply with 80 PLUS Platinum level certification
- Easy maintenance system fan: 3 x 12CM system fan with easy maintenance feature

Specifications

Processor System

- Chipset: Intel C621 Chipset
- CPU: Dual Socket P LGA-3647 2nd Gen Intel Xeon Scalable processors (TDP up to 205W*)
  
  * BIOS V2.00 or above is required for 2nd Gen Xeon Scalable processors
- Memory type: 12 x DDR4 2666 MHz ECC RDIMM/LRDIMM / Intel Optane DC Persistent Memory, up to 2TB

Graphics

- Controller: Aspeed AST2500
- VRAM: 64 MB

Expansion Slot

- Slot 1: PCIe x4 (Gen3 x 4 link)
- Slot 2: PCIe x16 slot (Gen3 x 16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards
- Slot 3: PCIe x4 (Gen3 x 4 link)
- Slot 4: PCIe x16 slot (Gen3 x 16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards
- Slot 5: PCIe x4 (Gen3 x 4 link)
- Slot 6: PCIe x16 slot (Gen3 x 16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards
- Slot 7: PCIe x4 (Gen3 x 4 link)
- Slot 8: PCIe x16 (Gen3 x 16 link), for double-deck 4.276"(H)/10.5"(L) expansion cards
- Slot 9: PCIe x8 (Gen3 x 8 link)

Drive Bay

- 2.5" (Internal) x 2
- 3.5" (Front Accessible) x 8
- 3.5" (Hot Swap) x 2

Ethernet Interface

- Controller: 2 x Intel I210AT

Front I/O Interface

- USB: 2 x USB 3.0
- USB: 2 x USB 3.0

Rear I/O Interface

- USB: 1 x USB3.0, 2 x USB 2.0, 1 USB 2.0 Type-A
- COM: 1
- Disaplay: 1 x VGA
- RJ-45: 2 (1 is sharing NIC for IPMI)

Internal connector

- USB: 5 (2 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)
- COM: 1
- LPC: 1

Watchdog Timer

- Output: System reset
- Interval: Programmable, 1-255 sec

Power Supply

- Power Output Wattage: 80 PLUS Platinum 2000W redundant Power Supply (Depends on input voltage)

Cooling

- Chassis Fan: 3 x 12CM + 2 x 8CM
- Air Filter: -

Miscellaneous

- LED Indicators: Power status, HDD activity, LAN1 & LAN2
- Remote Management: Advaentech Remote Monitoring Utility

Environment

- Operating Temperature: 0 ~ 35° C (32 ~ 85° F)
- Non-Operating Temperature: -20 ~ 60° C (-4 ~ 140° F)
- Operating Humidity: 95% @ 40° C
- Non-Operating Humidity: 95% @ 60° C
- Vibration (5 ~ 500 Hz): 0.25 Gs
- Shock: 10G with 11ms duration, half sine wave

Physical Characteristics

- Dimension (W x H x D): 435 x 177 x 673 mm (17.12" x 6.96" x 26.49")

* CPU Max TDP support depends on CPU cooler selection

All product specifications are subject to change without notice.
SKY-6400

**Dimensions**

Unit: mm [inch]

**Front View**

**Rear View**

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HDD</th>
<th>M.2 2242 (SATA)</th>
<th>VGA Chip</th>
<th>RJ45</th>
<th>IPMI</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY-6400-R20A1</td>
<td>10</td>
<td>2</td>
<td>AST 2500</td>
<td>2</td>
<td>YES</td>
<td>1+1 2000W RPS</td>
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**System Contents**

<table>
<thead>
<tr>
<th>Items</th>
<th>Advantech P/N</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Cooler, max support 150W</td>
<td>1960081603N001</td>
<td>2</td>
</tr>
<tr>
<td>GPU Card Power Cable (Convert PCIe 6P+2P to CPU 8P)</td>
<td>1700027652-01</td>
<td>4</td>
</tr>
<tr>
<td>Driver CD</td>
<td>2061097500</td>
<td>1</td>
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<tr>
<td>External Fan Kit (8CM Fan x2)</td>
<td>96616400200</td>
<td>1</td>
</tr>
<tr>
<td>GPU Extend Bracket (Fulfill NVF5.0)</td>
<td>1960084351N100</td>
<td>4</td>
</tr>
<tr>
<td>PCIe 6P+2P power cable for GPU card</td>
<td>N/A, Pre installed in the system</td>
<td>8</td>
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</table>

**Optional Accessories**

<table>
<thead>
<tr>
<th>Part</th>
<th>Number Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCA-AUDIO-HDA1E</td>
<td>HD Audio-card</td>
</tr>
<tr>
<td>PCA-TPM-00B1E</td>
<td>TPM Module</td>
</tr>
<tr>
<td>1700002204</td>
<td>Dual port USB cable (27 cm) with bracket</td>
</tr>
<tr>
<td>1700020277-01</td>
<td>Dual port USB 3.0 cable (30 cm) with bracket</td>
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<tr>
<td>1701090401</td>
<td>COM port cable with bracket</td>
</tr>
<tr>
<td>9680016858</td>
<td>Slide Rail</td>
</tr>
<tr>
<td>1960071739N100</td>
<td>Hold-down bar for GPU card power at north edge</td>
</tr>
<tr>
<td>1992610020</td>
<td>Rubber for GPU card power at north edge to pair with</td>
</tr>
<tr>
<td>1960081603N101</td>
<td>LGA-3647 narrow CPU cooler for 4U chassis (205W)</td>
</tr>
</tbody>
</table>